Listing of Claims:

Claims 1-26 (Canceled)

- 27. (Currently Amended) An information recording medium, comprising:
 - a first substrate, and
 - a first recording layer for recording information, including Ge, Sn, Sb, and Te, the first recording layer being formed of a composition in a range surrounded by points a, b, c on three dimensional coordinate axes defining atomic % of Ge-Sn, Sb and Te, where Ge-Sn represents a total of Ge and Sn, the coordinates of point a are (50, 0, 50), the coordinates of point b are (0, 40, 60) and the coordinates of point c are (0, 57.1, 42.9), the composition excluding the points a, b and c and a line b-c, and the recording layer having a thickness of 9 nm or less.
- 28. (Previously Presented) The information recording medium according to claim 27, comprising a second recording layer for recording information.
- 29. (Previously Presented) The information recording medium according to claim 28, comprising an intermediate layer disposed between the first information layer and the second information layer.
- 30. (Previously Presented) The information recording medium according to claim 27, wherein the first recording layer is made of a material represented by a composition formula: (Ge-Sn)_ASb_BTe_{3+A}, where 2 \leq A \leq 22 and 2 \leq B \leq 4.
- 31. (Previously Presented) The information recording medium according to claim 27, wherein a transmittance Tc (%) of the first information layer in a case where the first recording layer is in a crystal phase, and a transmittance Ta (%) of the first information layer in a case where the first recording layer is in an amorphous phase satisfy $40 \le (Tc + Ta)/2$ with respect to a laser beam having a wavelength in a range of 390 nm to 430 nm.

32. (Currently Amended) A method for producing an information recording medium, comprising:

forming a first substrate, and

forming a first recording layer for recording information on the first substrate; the first recording layer including Ge, Sn, Sb, and Te,

the first recording layer being formed of a composition in a range surrounded by points a, b, c on three dimensional coordinate axes defining atomic % of Ge-Sn, Sb and Te, where Ge-Sn represents a total of Ge and Sn, the coordinates of point a are (50, 0, 50), the coordinates of point b are (0, 40, 60) and the coordinates of point c are (0, 57.1, 42.9), the composition excluding the points a, b and c and a line b-c, and the first recording layer having a thickness of 9 nm or less.

- 33. (Previously Presented) The method according to claim 32, further comprising forming a second recording layer for recording information.
- 34. (Previously Presented) The method according to claim 33, comprising forming an intermediate layer between the first information layer and the second information layer.
- 35. (Currently Amended) A method for recording information on an information recording medium comprising

a first recording layer including Ge, Sn, Sb, and Te,

the first recording layer being formed of a composition in a range surrounded by points a, b, c on three dimensional coordinate axes defining atomic % of Ge-Sn. Sb and Te, where Ge-Sn represents a total of Ge and Sn, the coordinates of point a are (50, 0, 50), the coordinates of point b are (0, 40, 60) and the coordinates of point c are (0, 57.1, 42.9), the composition excluding the points a, b and c and a line b-c, and

the first recording layer having a thickness of 9 nm or less,

the method comprising[[;]]

generating a laser beam; and

recording information on the first recording layer by the laser beam.

- 36. (Previously Presented) The method according to claim 35, wherein the information recording medium further comprises a second recording layer, and the method comprises recording information on the second recording layer.
- 37. (Previously Presented) The method according to claim 35, wherein a wavelength of the laser beam is in a range of 390 nm to 430 nm.
- 38. (Currently Amended) A method for reproducing information from an information recording medium comprising

a first recording layer including Ge, Sn, Sb, and Te,

the first recording layer being formed of a composition in a range surrounded by points a, b, c on three dimensional coordinate axes defining atomic % of Ge-Sn, Sb and Te, where Ge-Sn represents a total of Ge and Sn, the coordinates of point a are (50, 0, 50), the coordinates of point b are (0, 40, 60) and the coordinates of point c are (0, 57.1, 42.9), the composition excluding the points a, b and c and a line b-c, and

the first recording layer having a thickness of 9 nm or less,

the method comprising[[;]]

generating a laser beam; and

reproducing information from the first recording layer by the laser beam.

- 39. (Previously Presented) The method according to claim 38, wherein the information recording medium comprises a second recording layer, and the method comprises reproducing information from the second recording layer.
- 40. (Previously Presented) The method according to claim 38, wherein a wavelength of the laser beam is in a range of 390 nm to 430 nm.